L Number	Hits	Search Text	DB	Time stamp
1	414	u373 or T98g	USPAT; US-PGPUB; DERWENT	2003/08/14 10:57
2	228	(u373 or T98g) same glioblastoma	USPAT; US-PGPUB; DERWENT	2003/08/14 10:57
3	13	(u373 or T98g) same glioblastoma same model	USPAT; US-PGPUB; DERWENT	2003/08/14 10:58
4	69	(u373 or T98g) same glioblastoma same cancer	USPAT; US-PGPUB; DERWENT	2003/08/14 10:58
5	61	((u373 or T98g) same glioblastoma same cancer) not ((u373 or T98g) same glioblastoma same model)	USPAT; US-PGPUB; DERWENT	2003/08/14 11:04
6	618	du145	USPAT; US-PGPUB; DERWENT	2003/08/14 11:04
7	348	du145 and lncap	USPAT; US-PGPUB; DERWENT	2003/08/14 11:04
8	260	(du145 and lncap) and ("pc-3" or pc3)	USPAT; US-PGPUB; DERWENT	2003/08/14 11:05
9	215	((du145 and lncap) and ("pc-3" or pc3)) and gene and express$9 and cancer$	USPAT; US-PGPUB; DERWENT	2003/08/14 11:13

L Number	Hits	Search Text	DB	Time stamp
1	414	u373 or T98g	USPAT; US-PGPUB; DERWENT	2003/08/14 11:24
2	24	(u373 or T98g) same model	USPAT; US-PGPUB; DERWENT	2003/08/14 11:26
3	12796	"imr-32" or imr32 or u373 or t98g or "sk-n-mc" or pc3 or "pc-3" or du145 or lncap or sw626 or pa1 or "pa-1" or c32 or A375 or sw1116 or capan or a549 or "a-549"	USPAT; US-PGPUB; DERWENT	2003/08/14 11:28
4	3125	("imr-32" or imr32 or u373 or t98g or "sk-n-mc" or pc3 or "pc-3" or du145 or lncap or sw626 or pa1 or "pa-1" or c32 or A375 or sw1116 or capan or a549 or "a-549") same (tumor or solid or patient or biops$8)	USPAT; US-PGPUB; DERWENT	2003/08/14 11:41
5	1043	(("imr-32" or imr32 or u373 or t98g or "sk-n-mc" or pc3 or "pc-3" or du145 or lncap or sw626 or pa1 or "pa-1" or c32 or A375 or sw1116 or capan or a549 or "a-549") same (tumor or solid or patient or biops$8)) same (express$8)	USPAT; US-PGPUB; DERWENT	2003/08/14 11:41
6	537	((("imr-32" or imr32 or u373 or t98g or "sk-n-mc" or pc3 or "pc-3" or du145 or lncap or sw626 or pa1 or "pa-1" or c32 or A375 or sw1116 or capan or a549 or "a-549") same (tumor or solid or patient or biops$8)) same (express$8)) same (cancer$8)	USPAT; US-PGPUB; DERWENT	2003/08/14 11:32
7	201	("imr-32" or imr32 or u373 or t98g or "sk-n-mc" or pc3 or "pc-3" or du145 or lncap or sw626 or pa1 or "pa-1" or c32 or A375 or sw1116 or capan or a549 or "a-549") same (solid near3 tumor or biops$8)	USPAT; US-PGPUB; DERWENT	2003/08/14 11:41
8	49	(("imr-32" or imr32 or u373 or t98g or "sk-n-mc" or pc3 or "pc-3" or du145 or lncap or sw626 or pa1 or "pa-1" or c32 or A375 or sw1116 or capan or a549 or "a-549") same (solid near3 tumor or biops$8)) same (express$8)	USPAT; US-PGPUB; DERWENT	2003/08/14 11:53
9	0	(("imr-32" or imr32 or u373 or t98g or "sk-n-mc" or pc3 or "pc-3" or du145 or lncap or sw626 or pa1 or "pa-1" or c32 or A375 or sw1116 or capan or a549 or "a-549") same (tumor or solid or patient or biops$8)) same poor same model	USPAT; US-PGPUB; DERWENT	2003/08/14 11:53
10	161	(("imr-32" or imr32 or u373 or t98g or "sk-n-mc" or pc3 or "pc-3" or du145 or lncap or sw626 or pa1 or "pa-1" or c32 or A375 or sw1116 or capan or a549 or "a-549") same (tumor or solid or patient or biops$8)) same correlat$9	USPAT; US-PGPUB; DERWENT	2003/08/14 12:04
11	11	(("imr-32" or imr32 or u373 or t98g or "sk-n-mc" or pc3 or "pc-3" or du145 or lncap or sw626 or pa1 or "pa-1" or c32 or A375 or sw1116 or capan or a549 or "a-549") same (solid near3 tumor or biops$8)) same correlat$9	USPAT; US-PGPUB; DERWENT	2003/08/14 12:04

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=> d his

     (FILE 'HOME' ENTERED AT 12:07:37 ON 14 AUG 2003)

     FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 12:07:48 ON 14 AUG 2003
L1            88 S SOLID (P) CELL (P) LINE? (P) (BAD OR POOR OR UNACCEPTABLE) (P
L2            41 DUP REM L1 (47 DUPLICATES REMOVED)
L3             3 S SOLID (P) (CELL (4A) LINE?) (P) ((BAD OR POOR OR UNACCEPTABLE
L4             1 DUP REM L3 (2 DUPLICATES REMOVED)
L5         68127 S (GENE (5A) EXPRES?) (P) (CELL (5A) LINE)
L6           462 S L5 AND (SOLID TUMOR)
L7           232 DUP REM L6 (230 DUPLICATES REMOVED)
L8            43 S L7 AND (CORRELAT? OR TREND? OR CORRESPOND?)

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1: Invest Urol. 1979 Jul;17(1):16-23. Related Articles, Links

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Establishment and characterization of a human prostatic carcinoma cell line (PC-3).

Kaighn ME, Narayan KS, Ohnuki Y, Lechner JF, Jones LW.

The establishment, characterization, and tumorigenicity of a new epithelial cell line (PC-3) from a human prostatic adenocarcinoma metastatic to bone is reported. The cultured cells show anchorage-independent growth in both monolayers and in soft agar suspension and produce subcutaneous tumors in nude mice. Culture of the transplanted tumor yielded a human cell line with characteristics identical to those used initially to produce the tumor. PC-3 has a greatly reduced dependence upon serum for growth when compared to normal prostatic epithelial cells and does not respond to androgens, glucocorticoids, or epidermal or fibroblast gowth factors. Karyotypic analysis by quinacrine banding revealed the cells to be completely aneuploid with a modal chromosome number in the hypotriploid range. At least 10 distinctive marker chromosomes were identified. The overall karyotype as well as the marker chromosomes are distinct from those of the HeLa cell. Electron microscopic studies revealed many features common to neoplastic cells of epithelial origin including numerous microvilli, junctional complexes, abnormal nuclei and nucleoli, abnormal mitochondria, annulate lamellae, and lipoidal bodies. Overall, the functional and morphologic characteristics of PC-3 are those of a poorly-differentiated adenocarcinoma. These cells should be useful in investigating the biochemical changes in advanced prostatic cancer cells and in assessing their response to chemotherapeutic agents.

PMID: 447482 [PubMed - indexed for MEDLINE]

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1: Int J Cancer. 1980 Jan 15;25(1):19-32. Related Articles, Links

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Characterization of a human ovarian teratocarcinoma-derived cell line.

Zeuthen J, Norgaard JO, Avner P, Fellous M, Wartiovaara J, Vaheri A, Rosen A, Giovanella BC.

A cell line (PA I), derived from human ovarian teratocarcinoma cells, was obtained by culturing ascitic fluid cells from a patient with recurrence of malignant ovarian teratoma. During early passages the cultured cells showed a variable morphology, a long doubling time, and a low plating efficiency (2%). After about 50 passages in vitro, a cell population which was more homogeneous and resembled embryonal carcinoma cells were obtained. These cells had a shorter doubling time (26 h), and increased plating efficiency (77%). The early-passage cells were aneuploid (P 24) whereas the late-passage cells had a normal diploid karyotype with one balanced translocation between chromosomes No. 15 and No. 20 (P 224). Details of the karyotype suggest that the cells are heterozygous, i.e. derived from a stage before the first meiotic division. One of the two X chromosomes were inactive, and the cells expressed HLA antigens (A28 and B12), and beta 2-microglobulin. Expression of F9 antigen, characteristic of two-cell and later preimplantation embryos, was absent, while expression of PCC4 antigen, expressed also by blastocysts, was present. This finding suggests that the line might express some embryonic characteristics. The PA I cell line maintained in monolayer cultures showed several characteristics of malignant cells. The proportion of malignant cells increased with successive passages in vitro. The late-passage cells represented a fairly homogenous population of malignant cells similar to embryonal carcinoma cells. Late-passage PA I cells, when seeded under conditions that prevented attachment of cells to the substratum, formed embryoid bodies consisting of an inner core of cells similar to embryonal carcinoma cells, surrounded by a rind of endoderm-like cells. These two cell layers were separated by a basement membrane-like structure containing fibronectin. The core embryonal carcinoma cells expressed high alkaline phosphatase activity whereas the endoderm-like cells had low alkaline phosphatase activity. Embryoid bodies seeded on an adhesive substratum formed polycystic structures divided by layers of epithelial-like cells and containing extracellular fibrils similar to collagen type I or III. In these cultures, further

limited differentiation into endoderm-like, epithelial-like cells and pigmented cells was observed. Morphological differenciation of undifferentiated PA I cells into endoderm-like cells in monolayer cultures could be obtained by treatment with BrdUrd or by plating in low serum concentration and at low density. Cells with characteristic fibrillar distribution of fibronectin and actin microfilament bundles were then observed, indicating formation of cells lacking properties of malignant cells. As indicated by these results, the PA I cell line, in spite of a limited capacity to differentiate in vitro, shares some of the properties of mouse teratocarcinoma cell lines and might therefore serve as a useful model for studies on some developmental mechanisms in human cells.

PMID: 6931103 [PubMed - indexed for MEDLINE]